

## SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.

YUE, Henry  
BANDMAN, Olga  
TANG, Y. Tom  
BAUGHN, Mariah R.  
AZIMZAI, Yalda  
LU, Dyung Aina M.

<120> HUMAN CHAPERONE PROTEINS

<130> PF-0728 PCT

<140> To Be Assigned

<141> Herewith

<150> 60/146,908; 60/160,924

<151> 1999-08-03; 1999-10-22

<160> 22

<170> PERL Program

<210> 1

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 723593CD1

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				20					25					30	
Ser	Arg	Ala	Leu	Pro	Ala	Gln	Asp	Pro	Pro	Met	Glu	Lys	Ala	Leu	35
				35					40					45	
Ser	Met	Phe	Ser	Asp	Asp	Phe	Gly	Ser	Phe	Met	Arg	Pro	His	Ser	50
				50					55					60	
Glu	Pro	Leu	Ala	Phe	Pro	Ala	Arg	Pro	Gly	Gly	Ala	Gly	Asn	Ile	65
				65					70					75	
Lys	Thr	Leu	Gly	Asp	Ala	Tyr	Glu	Phe	Ala	Val	Asp	Val	Arg	Asp	80
				80					85					90	
Phe	Ser	Pro	Glu	Asp	Ile	Ile	Val	Thr	Thr	Ser	Asn	Asn	His	Ile	95
				95					100					105	
Glu	Val	Arg	Ala	Glu	Lys	Leu	Ala	Ala	Asp	Gly	Thr	Val	Met	Asn	110
				110					115					120	
Thr	Phe	Ala	His	Lys	Cys	Gln	Leu	Pro	Glu	Asp	Val	Asp	Pro	Thr	125
				125					130					135	
Ser	Val	Thr	Ser	Ala	Leu	Arg	Glu	Asp	Gly	Ser	Leu	Thr	Ile	Arg	140
				140					145					150	
Ala	Arg	Arg	His	Pro	His	Thr	Glu	His	Val	Gln	Gln	Thr	Phe	Arg	155
				155					160					165	
Thr	Glu	Ile	Lys	Ile											170

<210> 2

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1708350CD1

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<400> 2
Met Ala Val Thr Lys Glu Leu Leu Gln Met Asp Leu Tyr Ala Leu
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Leu Gly Ile Glu Glu Lys Ala Ala Asp Lys Glu Val Lys Lys Ala
  20          25          30
Tyr Arg Gln Lys Ala Leu Ser Cys His Pro Asp Lys Asn Pro Asp
  35          40          45
Asn Pro Arg Ala Ala Glu Leu Phe His Gln Leu Ser Gln Ala Leu
  50          55          60
Glu Val Leu Thr Asp Ala Ala Ala Arg Ala Ala Tyr Asp Lys Val
  65          70          75
Arg Lys Ala Lys Lys Gln Ala Ala Glu Arg Thr Gln Lys Leu Asp
  80          85          90
Glu Lys Arg Lys Lys Val Lys Leu Asp Leu Glu Ala Arg Glu Arg
  95          100          105
Gln Ala Gln Ala Gln Glu Ser Glu Glu Glu Glu Ser Arg Ser
  110          115          120
Thr Arg Thr Leu Glu Gln Glu Ile Glu Arg Leu Arg Glu Glu Gly
  125          130          135
Ser Arg Gln Leu Glu Glu Gln Gln Arg Leu Ile Arg Glu Gln Ile
  140          145          150
Arg Gln Glu Arg Asp Gln Arg Leu Arg Gly Lys Ala Glu Asn Thr
  155          160          165
Glu Gly Gln Gly Thr Pro Lys Leu Lys Leu Lys Trp Lys Cys Lys
  170          175          180
Lys Glu Asp Glu Ser Lys Gly Gly Tyr Ser Lys Asp Val Leu Leu
  185          190          195
Arg Leu Leu Gln Lys Tyr Gly Glu Val Leu Asn Leu Val Leu Ser
  200          205          210
Ser Lys Lys Pro Gly Thr Ala Val Val Glu Phe Ala Thr Val Lys
  215          220          225
Ala Ala Glu Leu Ala Val Gln Asn Glu Val Gly Leu Val Asp Asn
  230          235          240
Pro Leu Lys Ile Ser Trp Leu Glu Gly Gln Pro Gln Asp Ala Val
  245          250          255
Gly Arg Ser His Ser Gly Leu Ser Lys Gly Ser Val Leu Ser Glu
  260          265          270
Arg Asp Tyr Glu Ser Leu Val Met Met Arg Met Arg Gln Ala Ala
  275          280          285
Glu Arg Gln Gln Leu Ile Ala Arg Met Gln Gln Glu Asp Gln Glu
  290          295          300
Gly Pro Pro Thr

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<210> 3
<211> 483
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1742550CD1

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Met Ala Lys Asp Ala Ser Ser Ala Asp Ile Arg Lys Ala Tyr Arg
  1          5          10          15
Lys Leu Ser Leu Thr Leu His Pro Asp Lys Asn Lys Asp Glu Asn
  20          25          30
Ala Glu Thr Gln Phe Arg Gln Leu Val Ala Ile Tyr Glu Val Leu
  35          40          45
Lys Asp Asp Glu Arg Arg Gln Arg Tyr Asp Asp Ile Leu Ile Asn
  50          55          60
Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg Arg Val
  65          70          75
Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile Ile
  80          85          90
Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu
  95          100          105

```

Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys  
 110 115 120  
 Lys Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala  
 125 130 135  
 Ser Glu Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp  
 140 145 150  
 Leu Leu Pro Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys  
 155 160 165  
 Ala Leu Pro His Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys  
 170 175 180  
 Tyr Lys Glu Thr Arg Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg  
 185 190 195  
 Thr Glu Leu Glu Thr Leu Gln Lys Gln Lys Lys Val Lys Lys Pro  
 200 205 210  
 Lys Pro Glu Phe Pro Val Tyr Thr Pro Leu Glu Thr Thr Tyr Ile  
 215 220 225  
 Gln Ser Tyr Asp His Gly Thr Ser Ile Glu Glu Ile Glu Glu Gln  
 230 235 240  
 Met Asp Asp Trp Leu Glu Asn Arg Asn Arg Thr Gln Lys Lys Gln  
 245 250 255  
 Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser Gln Leu Thr Arg Ser  
 260 265 270  
 Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg Trp Glu Lys Ile  
 275 280 285  
 Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr Thr Lys Ala  
 290 295 300  
 Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met Val Arg  
 305 310 315  
 Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile Lys  
 320 325 330  
 Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp  
 335 340 345  
 Ala Glu Gly Val Ala Ala Glu Glu Glu Gln Glu Gly Asp Ser Gly  
 350 355 360  
 Glu Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys  
 365 370 375  
 Pro Ala Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu  
 380 385 390  
 Lys Ser Arg Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln  
 395 400 405  
 Asn Glu Ser Ser Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg  
 410 415 420  
 Ser Ala Glu Glu Pro Trp Thr Gln Asn Gln Gln Lys Leu Leu Glu  
 425 430 435  
 Leu Ala Leu Gln Gln Tyr Pro Arg Gly Ser Ser Asp Arg Trp Asp  
 440 445 450  
 Lys Ile Ala Arg Cys Val Pro Ser Lys Ser Lys Glu Asp Cys Ile  
 455 460 465  
 Ala Arg Tyr Lys Leu Leu Val Glu Leu Val Gln Lys Lys Lys Gln  
 470 475 480  
 Ala Lys Ser

&lt;210&gt; 4

&lt;211&gt; 226

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1919301CD1

&lt;400&gt; 4

Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp  
 1 5 10 15  
 Arg Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser  
 20 25 30  
 Leu Gly Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr

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          35          40          45
Ser Arg Thr Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala
          50          55          60
Thr Gln Ala Gln Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu
          65          70          75
Tyr His Pro Asp Arg Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg
          80          85          90
Phe Thr Arg Ile Ser Gln Ala Tyr Val Val Leu Gly Ser Ala Thr
          95          100          105
Leu Arg Arg Lys Tyr Asp Arg Gly Leu Leu Ser Asp Glu Asp Leu
          110          115          120
Arg Gly Pro Gly Val Arg Pro Ser Arg Thr Pro Ala Pro Asp Pro
          125          130          135
Gly Ser Pro Arg Thr Pro Pro Pro Thr Ser Arg Thr His Asp Gly
          140          145          150
Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr Met Phe Asn Phe Asp
          155          160          165
Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu Glu Arg Glu Arg
          170          175          180
Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg Gln Glu Tyr
          185          190          195
Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp Thr Ala
          200          205          210
Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Ile Gly Phe Tyr
          215          220          225
Ile

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&lt;210&gt; 5

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2012055CD1

&lt;400&gt; 5

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Met Met Ala Val Glu Gln Met Pro Lys Lys Asp Trp Tyr Ser Ile
  1          5          10          15
Leu Gly Ala Asp Pro Ser Ala Asn Ile Ser Asp Leu Lys Gln Lys
          20          25          30
Tyr Gln Lys Leu Ile Leu Met Tyr His Pro Asp Lys Gln Ser Thr
          35          40          45
Asp Val Pro Ala Gly Thr Val Glu Glu Cys Val Gln Lys Phe Ile
          50          55          60
Glu Ile Asp Gln Ala Trp Lys Ile Leu Gly Asn Glu Glu Thr Lys
          65          70          75
Arg Glu Tyr Asp Leu Gln Arg Cys Glu Asp Asp Leu Arg Asn Val
          80          85          90
Gly Pro Val Asp Ala Gln Val Tyr Leu Glu Glu Met Ser Trp Asn
          95          100          105
Glu Val Thr Ser Gln Arg Gln
          110

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&lt;210&gt; 6

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2238062CD1

&lt;400&gt; 6

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Met Ala Ala Thr Leu Gly Ser Gly Glu Arg Trp Thr Glu Ala Tyr
  1          5          10          15
Ile Asp Ala Val Arg Arg Asn Lys Tyr Pro Glu Asp Thr Pro Pro
          20          25          30

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Glu Ser His Asp Pro Cys Gly Cys Cys Asn Cys Met Lys Ala Gln  
 35 40 45  
 Lys Glu Lys Lys Ser Glu Asn Glu Trp Thr Gln Thr Arg Gln Gly  
 50 55 60  
 Glu Gly Asn Ser Thr Tyr Ser Glu Glu Gln Leu Leu Gly Val Gln  
 65 70 75  
 Arg Ile Lys Lys Cys Arg Asn Tyr Tyr Glu Ile Leu Gly Val Ser  
 80 85 90  
 Arg Asp Ala Ser Asp Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu  
 95 100 105  
 Ala Leu Lys Phe His Pro Asp Lys Asn Cys Ala Pro Gly Ala Thr  
 110 115 120  
 Asp Ala Phe Lys Ala Ile Gly Asn Ala Phe Ala Val Leu Ser Asn  
 125 130 135  
 Pro Asp Lys Arg Leu Arg Tyr Asp Glu Tyr Gly Asp Glu Gln Val  
 140 145 150  
 Thr Phe Thr Ala Pro Arg Ala Arg Pro Tyr Asn Tyr Tyr Arg Asp  
 155 160 165  
 Phe Glu Ala Asp Ile Thr Pro Glu Glu Leu Phe Asn Val Phe Phe  
 170 175 180  
 Gly Gly His Phe Pro Thr Gly Asn Ile His Met Phe Ser Asn Val  
 185 190 195  
 Thr Asp Asp Thr Tyr Tyr Tyr Arg Arg Arg His Arg His Glu Arg  
 200 205 210  
 Thr Gln Thr Gln Lys Glu Glu Glu Glu Glu Lys Pro Gln Thr Thr  
 215 220 225  
 Tyr Ser Ala Phe Ile Gln Leu Leu Pro Val Leu Val Ile Val Ile  
 230 235 240  
 Ile Ser Val Ile Thr Gln Leu Leu Ala Thr Asn Pro Pro Tyr Ser  
 245 250 255  
 Leu Phe Tyr Lys Ser Thr Leu Gly Tyr Thr Ile Ser Arg Glu Thr  
 260 265 270  
 Gln Asn Leu Gln Val Pro Tyr Phe Val Asp Lys Asn Phe Asp Lys  
 275 280 285  
 Ala Tyr Arg Gly Ala Ser Leu His Asp Leu Glu Lys Thr Ile Glu  
 290 295 300  
 Lys Asp Tyr Ile Asp Tyr Ile Gln Thr Ser Cys Trp Lys Glu Lys  
 305 310 315  
 Gln Gln Lys Ser Glu Leu Thr Asn Leu Ala Gly Leu Tyr Arg Asp  
 320 325 330  
 Glu Arg Leu Lys Gln Lys Ala Glu Ser Leu Lys Leu Glu Asn Cys  
 335 340 345  
 Glu Lys Leu Ser Lys Leu Ile Gly Leu Arg Arg Gly Gly  
 350 355

<210> 7

<211> 928

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1825012CD1

<400> 7

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 Tyr Ile Arg Gly Lys Thr Glu Ala Ala Ile Lys Asn Phe Ser Pro  
 20 25 30  
 Tyr Tyr Ser Arg Gln Tyr Ser Val Ala Phe Cys Asn His Val Arg  
 35 40 45  
 Thr Glu Val Glu Gln Gln Arg Asp Leu Thr Ser Gln Phe Leu Lys  
 50 55 60  
 Thr Lys Pro Pro Leu Ala Pro Gly Thr Ile Leu Tyr Glu Ala Glu  
 65 70 75  
 Leu Ser Gln Phe Ser Glu Asp Ile Lys Lys Trp Lys Glu Arg Tyr  
 80 85 90  
 Val Val Val Lys Asn Asp Tyr Ala Val Glu Ser Tyr Glu Asn Lys

	95		100		105
Glu Ala Tyr Gln Arg Gly Ala Ala Pro Lys Cys Arg Ile Leu Pro					
	110		115		120
Ala Gly Gly Lys Val Leu Thr Ser Glu Asp Glu Tyr Asn Leu Leu					
	125		130		135
Ser Asp Arg His Phe Pro Asp Pro Leu Ala Ser Ser Glu Lys Glu					
	140		145		150
Asn Thr Gln Pro Phe Val Val Leu Pro Lys Glu Phe Pro Val Tyr					
	155		160		165
Leu Trp Gln Pro Phe Phe Arg His Gly Tyr Phe Cys Phe His Glu					
	170		175		180
Ala Ala Asp Gln Lys Arg Phe Ser Ala Leu Leu Ser Asp Cys Val					
	185		190		195
Arg His Leu Asn His Asp Tyr Met Lys Gln Met Thr Phe Glu Ala					
	200		205		210
Gln Ala Phe Leu Glu Ala Val Gln Phe Phe Arg Gln Glu Lys Gly					
	215		220		225
His Tyr Gly Ser Trp Glu Met Ile Thr Gly Asp Glu Ile Gln Ile					
	230		235		240
Leu Ser Asn Leu Val Met Glu Glu Leu Leu Pro Thr Leu Gln Thr					
	245		250		255
Asp Leu Leu Pro Lys Met Lys Gly Lys Lys Asn Asp Arg Lys Arg					
	260		265		270
Thr Trp Leu Gly Leu Leu Glu Glu Ala Tyr Thr Leu Val Gln His					
	275		280		285
Gln Val Ser Glu Gly Leu Ser Ala Leu Lys Glu Glu Cys Arg Ala					
	290		295		300
Leu Thr Lys Gly Leu Glu Gly Thr Ile Arg Ser Asp Met Asp Gln					
	305		310		315
Ile Val Asn Ser Lys Asn Tyr Leu Ile Gly Lys Ile Lys Ala Met					
	320		325		330
Val Ala Gln Pro Ala Glu Lys Ser Cys Leu Glu Ser Val Gln Pro					
	335		340		345
Phe Leu Ala Ser Ile Leu Glu Glu Leu Met Gly Pro Val Ser Ser					
	350		355		360
Gly Phe Ser Glu Val Arg Val Leu Phe Glu Lys Glu Val Asn Glu					
	365		370		375
Val Ser Gln Asn Phe Gln Thr Thr Lys Asp Ser Val Gln Leu Lys					
	380		385		390
Glu His Leu Asp Arg Leu Met Asn Leu Pro Leu His Ser Val Lys					
	395		400		405
Met Glu Pro Cys Tyr Thr Lys Val Asn Leu Leu His Glu Arg Leu					
	410		415		420
Gln Asp Leu Lys Ser Arg Phe Arg Phe Pro His Ile Asp Leu Val					
	425		430		435
Val Gln Arg Thr Gln Asn Tyr Met Gln Glu Leu Met Glu Asn Ala					
	440		445		450
Val Phe Thr Phe Glu Gln Leu Leu Ser Pro His Leu Gln Gly Glu					
	455		460		465
Ala Ser Lys Thr Ala Val Ala Ile Glu Lys Val Lys Leu Arg Val					
	470		475		480
Leu Lys Gln Tyr Asp Tyr Asp Ser Ser Thr Ile Arg Lys Lys Ile					
	485		490		495
Phe Gln Glu Ala Leu Val Gln Ile Thr Leu Pro Thr Val Gln Lys					
	500		505		510
Ala Leu Ala Ser Thr Cys Lys Pro Glu Leu Gln Lys Tyr Glu Gln					
	515		520		525
Phe Ile Phe Ala Asp His Thr Asn Met Ile His Val Glu Asn Val					
	530		535		540
Tyr Glu Glu Ile Leu His Gln Ile Leu Leu Asp Glu Thr Leu Lys					
	545		550		555
Val Ile Lys Glu Ala Ala Ile Leu Lys Lys His Asn Leu Phe Glu					
	560		565		570
Asp Asn Met Ala Leu Pro Ser Glu Ser Val Ser Ser Leu Thr Asp					
	575		580		585
Leu Lys Pro Pro Thr Gly Ser Asn Gln Ala Ser Pro Ala Arg Arg					
	590		595		600

<400>	8														
Met	Gln	Arg	Val	Gly	Asn	Thr	Phe	Ser	Asn	Glu	Ser	Arg	Val	Ala	
1				5					10					15	
Ser	Arg	Cys	Pro	Ser	Val	Gly	Leu	Ala	Glu	Arg	Asn	Arg	Val	Ala	
				20					25					30	
Thr	Met	Pro	Val	Arg	Leu	Leu	Arg	Asp	Ser	Pro	Ala	Ala	Gln	Glu	
				35					40					45	
Asp	Asn	Asp	His	Ala	Arg	Asp	Gly	Phe	Gln	Met	Lys	Leu	Asp	Ala	
				50					55					60	
His	Gly	Phe	Ala	Pro	Glu	Glu	Leu	Val	Val	Gln	Val	Asp	Gly	Gln	
				65					70					75	
Trp	Leu	Met	Val	Thr	Gly	Gln	Gln	Gln	Leu	Asp	Val	Arg	Asp	Pro	
				80					85					90	
Glu	Arg	Val	Ser	Tyr	Arg	Met	Ser	Gln	Lys	Val	His	Arg	Lys	Met	

Leu	Pro	Ser	Asn	95	Ser	Pro	Thr	Ala	100	Thr	Cys	Cys	Leu	105
				110					115					120
Pro	Ser	Gly	Gln	125	Trp	Val	Arg	Gly	130	Gln	Cys	Val	Ala	135
Leu	Pro	Glu	Ala	140	Thr	Gly	Pro	Ser	145	Pro	Arg	Leu	Gly	150
Gly	Ser	Lys	Ala	155	Ser	Asn	Leu	Thr	Arg					

&lt;210&gt; 9

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1979146CD1

&lt;400&gt; 9

Met	Trp	Arg	Gly	Arg	Ala	Gly	Ala	Leu	Leu	Arg	Val	Trp	Gly	Phe
1				5					10					15
Trp	Pro	Thr	Gly	Val	Pro	Arg	Arg	Arg	Pro	Leu	Ser	Cys	Asp	Ala
				20					25					30
Ala	Ser	Gln	Ala	Gly	Ser	Asn	Tyr	Pro	Arg	Cys	Trp	Asn	Cys	Gly
				35					40					45
Gly	Pro	Trp	Gly	Pro	Gly	Arg	Glu	Asp	Arg	Phe	Phe	Cys	Pro	Gln
				50					55					60
Cys	Arg	Ala	Leu	Gln	Ala	Pro	Asp	Pro	Thr	Arg	Asp	Tyr	Phe	Ser
				65					70					75
Leu	Met	Asp	Cys	Asn	Arg	Ser	Phe	Arg	Val	Asp	Thr	Ala	Asn	Val
				80					85					90
Gln	His	Arg	Tyr	Gln	Gln	Leu	Gln	Arg	Leu	Val	His	Pro	Asp	Phe
				95					100					105
Phe	Ser	Gln	Arg	Ser	Gln	Thr	Glu	Lys	Asp	Phe	Ser	Glu	Lys	His
				110					115					120
Ser	Thr	Leu	Val	Asn	Asp	Ala	Tyr	Lys	Thr	Leu	Leu	Ala	Pro	Leu
				125					130					135
Ser	Arg	Gly	Leu	Tyr	Leu	Leu	Lys	Leu	His	Gly	Ile	Glu	Ile	Pro
				140					145					150
Glu	Arg	Thr	Asp	Tyr	Glu	Met	Asp	Arg	Gln	Phe	Leu	Ile	Glu	Ile
				155					160					165
Met	Glu	Ile	Asn	Glu	Lys	Leu	Ala	Glu	Ala	Glu	Ser	Glu	Ala	Ala
				170					175					180
Met	Lys	Glu	Ile	Glu	Ser	Ile	Val	Lys	Ala	Lys	Gln	Lys	Glu	Phe
				185					190					195
Thr	Asp	Asn	Val	Ser	Ser	Ala	Phe	Glu	Gln	Asp	Asp	Phe	Glu	Glu
				200					205					210
Ala	Lys	Glu	Ile	Leu	Thr	Lys	Met	Arg	Tyr	Phe	Ser	Asn	Ile	Glu
				215					220					225
Glu	Lys	Ile	Lys	Leu	Lys	Lys	Ile	Pro	Leu					
				230					235					

&lt;210&gt; 10

&lt;211&gt; 260

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5680480CD1

&lt;400&gt; 10

Met	Gly	Leu	Leu	Asp	Leu	Cys	Glu	Glu	Val	Phe	Gly	Thr	Ala	Asp
1				5					10					15
Leu	Tyr	Arg	Val	Leu	Gly	Val	Arg	Arg	Glu	Ala	Ser	Asp	Gly	Glu
				20					25					30
Val	Arg	Arg	Gly	Tyr	His	Lys	Val	Ser	Leu	Gln	Val	His	Pro	Asp
				35					40					45



Arg Val Gly Glu Gly Asp Lys Glu Asp Ala Thr Arg Arg Phe Gln  
 50 55 60  
 Ile Leu Gly Lys Val Tyr Ser Val Leu Ser Asp Arg Glu Gln Arg  
 65 70 75  
 Ala Val Tyr Asp Glu Gln Gly Thr Val Asp Glu Asp Ser Pro Val  
 80 85 90  
 Leu Thr Gln Asp Arg Asp Trp Glu Ala Tyr Trp Arg Leu Leu Phe  
 95 100 105  
 Lys Lys Ile Ser Leu Glu Asp Ile Gln Ala Phe Glu Lys Thr Tyr  
 110 115 120  
 Lys Gly Ser Glu Glu Leu Ala Asp Ile Lys Gln Ala Tyr Leu  
 125 130 135  
 Asp Phe Lys Gly Asp Met Asp Gln Ile Met Glu Ser Val Leu Cys  
 140 145 150  
 Val Gln Tyr Thr Glu Glu Pro Arg Ile Arg Asn Ile Ile Gln Gln  
 155 160 165  
 Ala Ile Asp Ala Gly Glu Val Pro Ser Tyr Asn Ala Phe Val Lys  
 170 175 180  
 Glu Ser Lys Gln Lys Met Asn Ala Arg Lys Arg Arg Ala Gln Glu  
 185 190 195  
 Glu Ala Lys Glu Ala Glu Met Ser Arg Lys Glu Leu Gly Leu Asp  
 200 205 210  
 Glu Gly Val Asp Ser Leu Lys Ala Ala Ile Gln Ser Arg Gln Lys  
 215 220 225  
 Asp Arg Gln Lys Glu Met Asp Asn Phe Leu Ala Gln Met Glu Ala  
 230 235 240  
 Lys Tyr Cys Lys Ser Ser Lys Gly Gly Gly Lys Lys Ser Ala Leu  
 245 250 255  
 Lys Lys Glu Lys Lys  
 260

<210> 11

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1459372CD1

<400> 11

Met Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu  
 1 5 10 15  
 Gly Val Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr  
 20 25 30  
 Arg Gln Leu Ala Val Met Val His Pro Asp Lys Asn His His Pro  
 35 40 45  
 Arg Ala Glu Glu Ala Phe Lys Val Leu Arg Ala Ala Trp Asp Ile  
 50 55 60  
 Val Ser Asn Ala Glu Lys Arg Lys Glu Tyr Glu Met Lys Arg Met  
 65 70 75  
 Ala Glu Asn Glu Leu Ser Arg Ser Val Asn Glu Phe Leu Ser Lys  
 80 85 90  
 Leu Gln Asp Asp Leu Lys Glu Ala Met Asn Thr Met Met Cys Ser  
 95 100 105  
 Arg Cys Gln Gly Lys His Arg Arg Phe Glu Met Asp Arg Glu Pro  
 110 115 120  
 Lys Ser Ala Arg Tyr Cys Ala Glu Cys Asn Arg Leu His Pro Ala  
 125 130 135  
 Glu Glu Gly Asp Phe Trp Ala Glu Ser Ser Met Leu Gly Leu Lys  
 140 145 150  
 Ile Thr Tyr Phe Ala Leu Met Asp Gly Lys Val Tyr Asp Ile Thr  
 155 160 165  
 Glu Trp Ala Gly Cys Gln Arg Val Gly Ile Ser Pro Asp Thr His  
 170 175 180  
 Arg Val Pro Tyr His Ile Ser Phe Gly Ser Arg Ile Pro Gly Thr  
 185 190 195  
 Arg Gly Arg Gln Arg Ala Thr Pro Asp Ala Pro Pro Ala Asp Leu

Gln Asp Phe Leu	200	205	210
Ser Arg Ile Phe Gln	215	Val Pro Pro Gly Gln	Met
Pro Asn Gly Asn Phe	220	Gln Pro Ala Pro Gly	Ala
Ala Ala Ala Ser Lys	230	Val Pro Lys Gly Glu	Ala
Lys Pro Lys Arg Arg	245	Arg Pro Phe Gln Arg	255
	260	265	

&lt;210&gt; 12

&lt;211&gt; 1550

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 723593CB1

&lt;400&gt; 12

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gtcggagcct ggcacgctcg cccagaggcc tgcgcccaca cctctcctg tccagccctc 60
gcccgcctgg gcaggggccc gcgcgcgtcg tggatgagcc acagaacctc tccacacctc 120
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&lt;213&gt; Homo sapiens

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&lt;211&gt; 1950

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&lt;210&gt; 15

&lt;211&gt; 1187

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 1919301CB1

&lt;400&gt; 15

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&lt;211&gt; 740

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 2012055CB1

&lt;400&gt; 16

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&lt;211&gt; 1361

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 2238062CB1

&lt;400&gt; 17

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 1825012CB1

&lt;400&gt; 18

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<210> 20

<211> 1090

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1979146CB1

<400> 20

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<210> 21  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5680480CB1

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<210> 22  
 <211> 1147  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1459372CB1

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<400> 22
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tgatcttcag gatttcttga gtcggatctt tcaagtacc ccagggcaga tgcccaatgg 780  
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Sequence